

SUNDRAM KUMAR RAI

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Education

National Institute of Technology, Raipur

Bachelor of Technology, Electrical Engineering — CGPA: 8.99/10.0

2023 – 2027 (expected)

Raipur, Chhattisgarh

Skills Summary

Languages: C/C++, Python, JavaScript, TypeScript

Computer Fundamentals: Data Structures & Algorithms, OOP, Operating Systems, DBMS, Computer Networks

Web Development: MERN Stack (MongoDB, Express, React, Node), REST APIs, HTML, CSS

Frameworks & Tools: Flask, Vercel (CI/CD), Docker (basic), Git & GitHub, Postman, Jupyter Notebook, Linux/CLI

AI & ML: YOLOv8, OpenCV, PyTorch, scikit-learn, LLM APIs (basic)

Other: System Design (intro), Performance Optimization (caching, profiling), Cloud (Firebase / AWS basics)

Soft Skills: Leadership, Teamwork, Communication, Event Management, Design

Experience

Project Lead — Smart-Scan, Innovation Cell, NIT Raipur

Oct 2024

Technologies: Python, Pytorch, Flask, YOLOv5, EasyOCR, Scrapy, Roboflow

Raipur, Chhattisgarh

- Built low-latency Flask API for real-time YOLOv5 + EasyOCR inference (90% accuracy); added warm-up and async batching to cut cold-start latency and boost throughput.
- Automated data pipeline (Scrapy/Selenium → Roboflow) for 3000+ images and productionized evaluation/dashboarding on GRID 6.0 to monitor OCR/detection metrics.

Projects

Hireable | React, TypeScript, Vite, Tailwind CSS, shadcn/ui, Vercel

Apr 2025

- Developed & deployed a production-ready job portal (React, TypeScript, React Query); modular components, client-side caching & state management — used by 50+ peers for mock hiring.
- Implemented search & filter with paginated APIs, debounce and React-Hook-Form + Zod — reduced API calls by ~30%.
- Optimized Vercel CI/CD (builds, caching, code-splitting) — <1.2s loads & minimized backend load.

Farm-Guru | React, TypeScript, Tailwind CSS, shadcn/ui, Vercel

Jul 2025

- Designed a multilingual frontend with **voice-input** & dashboards; integrated **weather**, **crop** & **market** APIs with caching & lazy-loading, enabling 100+ farmers to access real-time insights.
- Deployed on **Vercel** with fault-tolerant routing, CI/CD, code-splitting & caching for consistent cross-device UX.

DiagnoseAI | Python, Flask, PyTorch, scikit-learn, NLTK

Jun 2025

- Built an **NLP-driven** medical chatbot with fuzzy symptom matching, achieving **85%** precision in early disease prediction.
- Automated dynamic PDF report generation via Flask backend, cutting manual reporting time by ~**60%**.

Achievements

- Codeforces Specialist — Max Rating: **1432**.
- CodeChef — 3-Star (Max Rating: **1712**).
- LeetCode — Max Rating: **1755**; Global Rank **1136** in Weekly Contest 460.
- Solved **1000+** problems across various coding platforms.
- Winner — **CaseOps 3.0** (Case Competition), NIT Raipur.
- Finalist — **Robothon** (Robotics Hackathon), NIT Raipur.
- Awarded **25,000** seed grant for an ML-based pet health startup (smart collar with anomaly detection).
- Open-Source Contributor (GSSoC '25)**, raised PRs projects successfully merged into live repositories.
- Finalist — **0 to 1 Hackathon**, IIIT Delhi (E-Summit 2025).

Positions of Responsibility

- Technical Executive**, Robotix Club, NIT Raipur (Sep 2023 – Present): Led robotics projects (Surface Cleaning Bot, Smart Helmet, Obstacle-Avoiding Robot); implemented A* in a Python simulator and mentored peers in prototyping.
- Executive**, Technocracy (Technical Committee), NIT Raipur (Oct 2024 – Present): Streamlined shortlisting for Vigyaan (**50+** submissions), formulated problem statements, and oversaw technical assessments.